

RECEIVED

JUL 27 2001

OIEP

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/396,539A

DATE: 07/05/2001

TIME: 10:37:44

Input Set : A:\7682048999.txt

Output Set: N:\CRF3\07052001\I396539A.raw

#12

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Palese, Peter

7 Garcia-Sastre, Adolfo

9 (ii) TITLE OF INVENTION: RECOMBINANT NEGATIVE STRAND RNA VIRUS
10 EXPRESSION SYSTEMS AND VACCINES

12 (iii) NUMBER OF SEQUENCES: 63

14 (iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: Pennie & Edmonds

16 (B) STREET: 1155 Avenue of the Americas

17 (C) CITY: New York

18 (D) STATE: New York

19 (E) COUNTRY: USA

20 (F) ZIP: 10036-2711

22 (v) COMPUTER READABLE FORM:

23 (A) MEDIUM TYPE: Floppy disk

24 (B) COMPUTER: IBM PC compatible

25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

28 (vi) CURRENT APPLICATION DATA:

C--> 29 (A) APPLICATION NUMBER: US/09/396,539A

C--> 30 (B) FILING DATE: 14-Sep-1999

41 (C) CLASSIFICATION:

38 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: US 08/252,508

35 (B) FILING DATE: 01-JUN-1994

39 (A) APPLICATION NUMBER: US 09/106,377

40 (B) FILING DATE: 29-JUN-1998

43 (viii) ATTORNEY/AGENT INFORMATION:

44 (A) NAME: Coruzzi, Laura A.

45 (B) REGISTRATION NUMBER: 30,742

46 (C) REFERENCE/DOCKET NUMBER: 7682-048

48 (ix) TELECOMMUNICATION INFORMATION:

49 (A) TELEPHONE: (212) 790-9090

50 (B) TELEFAX: (212) 869-9741/8864

51 (C) TELEX: 66141 PENNIE

54 (2) INFORMATION FOR SEQ ID NO: 1:

56 (i) SEQUENCE CHARACTERISTICS:

57 (A) LENGTH: 21 base pairs

58 (B) TYPE: nucleic acid

59 (C) STRANDEDNESS: single

60 (D) TOPOLOGY: linear

62 (ii) MOLECULE TYPE: genomic DNA

66 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

68 TACGAGGAAA TGTCCTGTT A

70 (2) INFORMATION FOR SEQ ID NO: 2:

72 (i) SEQUENCE CHARACTERISTICS:

ENTERED

21

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/396,539A

DATE: 07/05/2001

TIME: 10:37:44

Input Set : A:\7682048999.txt

Output Set: N:\CRF3\07052001\I396539A.raw

```

73      (A) LENGTH: 19 amino acids
74      (B) TYPE: amino acid
75      (C) STRANDEDNESS: single
76      (D) TOPOLOGY: linear
78      (ii) MOLECULE TYPE: peptide
82      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
84      Gln Leu Val Trp Met Ala Cys Asn Ser Ala Ala Phe Glu Asp Leu Arg
85      1             5             10             15
87      Val Leu Ser
90 (2) INFORMATION FOR SEQ ID NO: 3:
92      (i) SEQUENCE CHARACTERISTICS:
93          (A) LENGTH: 16 amino acids
94          (B) TYPE: amino acid
95          (C) STRANDEDNESS: single
96          (D) TOPOLOGY: linear
98      (ii) MOLECULE TYPE: peptide
102     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
104     Thr Tyr Gln Arg Thr Arg Gln Leu Val Arg Leu Thr Gly Met Asp Pro
105     1             5             10             15
108 (2) INFORMATION FOR SEQ ID NO: 4:
110     (i) SEQUENCE CHARACTERISTICS:
111         (A) LENGTH: 95 base pairs
112         (B) TYPE: nucleic acid
113         (C) STRANDEDNESS: single
114         (D) TOPOLOGY: linear
116     (ii) MOLECULE TYPE: genomic DNA
120     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
122     GAAGCTTAAT ACGACTCACT ATAAGTAGAA ACAAGGGTGT TTTTTCATAT CATTTAAACT
124     TCACCCTGCT TTTGCTGAAT TCATTCTTCT GCAGG
126 (2) INFORMATION FOR SEQ ID NO: 5:
128     (i) SEQUENCE CHARACTERISTICS:
129         (A) LENGTH: 95 base pairs
130         (B) TYPE: nucleic acid
131         (C) STRANDEDNESS: single
132         (D) TOPOLOGY: linear
134     (ii) MOLECULE TYPE: genomic DNA
138     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
140     GAAGCTTAAT ACGACTCACT ATAAGCAAAA GCAGGGTGAA GTTTAAATGA TATGAAAAAA
142     CACCCTTGTT TCTACTGAAT TCATTCTTCT GCAGG
144 (2) INFORMATION FOR SEQ ID NO: 6:
146     (i) SEQUENCE CHARACTERISTICS:
147         (A) LENGTH: 68 base pairs
148         (B) TYPE: nucleic acid
149         (C) STRANDEDNESS: single
150         (D) TOPOLOGY: linear
152     (ii) MOLECULE TYPE: genomic DNA
156     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
158     AGCTTAATAC GACTCACTAT AAGATCTATT AACTTCACC CTGCTTTTGC TGAATTCATT
160     CTTCTGCA

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/396,539A

DATE: 07/05/2001

TIME: 10:37:44

Input Set : A:\7682048999.txt

Output Set: N:\CRF3\07052001\I396539A.raw

```

162 (2) INFORMATION FOR SEQ ID NO: 7:
164     (i) SEQUENCE CHARACTERISTICS:
165         (A) LENGTH: 60 base pairs
166         (B) TYPE: nucleic acid
167         (C) STRANDEDNESS: single
168         (D) TOPOLOGY: linear
170     (ii) MOLECULE TYPE: genomic DNA
174     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
176 GAAGAATGAA TTCAGCAAAA GCAGGGTGAA GTTAAATAGA TCTTATAGTG AGTCGTATTA      60
179 (2) INFORMATION FOR SEQ ID NO: 8:
181     (i) SEQUENCE CHARACTERISTICS:
182         (A) LENGTH: 42 base pairs
183         (B) TYPE: nucleic acid
184         (C) STRANDEDNESS: single
185         (D) TOPOLOGY: linear
187     (ii) MOLECULE TYPE: genomic DNA
191     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
193 CCGAATTCTT AATACGACTC ACTATAAGTA GAAACAAGGG TG
195 (2) INFORMATION FOR SEQ ID NO: 9:      42
197     (i) SEQUENCE CHARACTERISTICS:
198         (A) LENGTH: 30 base pairs
199         (B) TYPE: nucleic acid
200         (C) STRANDEDNESS: single
201         (D) TOPOLOGY: linear
203     (ii) MOLECULE TYPE: genomic DNA
207     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
209 CCTCTAGACG CTCGAGAGCA AAAGCAGGTG
211 (2) INFORMATION FOR SEQ ID NO: 10:      30
213     (i) SEQUENCE CHARACTERISTICS:
214         (A) LENGTH: 15 base pairs
215         (B) TYPE: nucleic acid
216         (C) STRANDEDNESS: single
217         (D) TOPOLOGY: unknown
219     (ii) MOLECULE TYPE: genomic RNA (genomic)
223     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
225 CACCCUGCUU UUGCU
227 (2) INFORMATION FOR SEQ ID NO: 11:      15
229     (i) SEQUENCE CHARACTERISTICS:
230         (A) LENGTH: 15 base pairs
231         (B) TYPE: nucleic acid
232         (C) STRANDEDNESS: single
233         (D) TOPOLOGY: unknown
235     (ii) MOLECULE TYPE: genomic RNA
239     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
241 CACCCUGCUU UUACU
243 (2) INFORMATION FOR SEQ ID NO: 12:      15
245     (i) SEQUENCE CHARACTERISTICS:
246         (A) LENGTH: 15 base pairs
247         (B) TYPE: nucleic acid

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/396,539A

DATE: 07/05/2001

TIME: 10:37:44

Input Set : A:\7682048999.txt

Output Set: N:\CRF3\07052001\I396539A.raw

```

248         (C) STRANDEDNESS: single
249         (D) TOPOLOGY: unknown
251     (ii) MOLECULE TYPE: genomic RNA
255     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
257 CACCCUGCUU CUGCU
259 (2) INFORMATION FOR SEQ ID NO: 13:
261     (i) SEQUENCE CHARACTERISTICS:
262         (A) LENGTH: 15 base pairs
263         (B) TYPE: nucleic acid
264         (C) STRANDEDNESS: single
265         (D) TOPOLOGY: unknown
267     (ii) MOLECULE TYPE: genomic RNA
271     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
273 CACCCUGUUU UUGCU
275 (2) INFORMATION FOR SEQ ID NO: 14:
277     (i) SEQUENCE CHARACTERISTICS:
278         (A) LENGTH: 16 base pairs
279         (B) TYPE: nucleic acid
280         (C) STRANDEDNESS: single
281         (D) TOPOLOGY: unknown
283     (ii) MOLECULE TYPE: genomic RNA
287     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
289 CACCCUUGCU UUUGCU
291 (2) INFORMATION FOR SEQ ID NO: 15:
293     (i) SEQUENCE CHARACTERISTICS:
294         (A) LENGTH: 15 base pairs
295         (B) TYPE: nucleic acid
296         (C) STRANDEDNESS: single
297         (D) TOPOLOGY: unknown
299     (ii) MOLECULE TYPE: genomic RNA
303     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
305 CACCCUGUUU UUACU
307 (2) INFORMATION FOR SEQ ID NO: 16:
309     (i) SEQUENCE CHARACTERISTICS:
310         (A) LENGTH: 15 base pairs
311         (B) TYPE: nucleic acid
312         (C) STRANDEDNESS: single
313         (D) TOPOLOGY: unknown
315     (ii) MOLECULE TYPE: genomic RNA
319     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
321 CACCCUGUUU CUGCU
323 (2) INFORMATION FOR SEQ ID NO: 17:
325     (i) SEQUENCE CHARACTERISTICS:
326         (A) LENGTH: 16 base pairs
327         (B) TYPE: nucleic acid
328         (C) STRANDEDNESS: single
329         (D) TOPOLOGY: unknown
331     (ii) MOLECULE TYPE: genomic RNA
335     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/396,539A

DATE: 07/05/2001

TIME: 10:37:44

Input Set : A:\7682048999.txt

Output Set: N:\CRF3\07052001\I396539A.raw

```

337 CACCCUUGCU UUUACU
339 (2) INFORMATION FOR SEQ ID NO: 18: 16
341 (i) SEQUENCE CHARACTERISTICS:
342 (A) LENGTH: 16 base pairs
343 (B) TYPE: nucleic acid
344 (C) STRANDEDNESS: single
345 (D) TOPOLOGY: unknown
347 (ii) MOLECULE TYPE: genomic RNA
351 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
353 CACCCUUGUU UUUACU
355 (2) INFORMATION FOR SEQ ID NO: 19: 16
357 (i) SEQUENCE CHARACTERISTICS:
358 (A) LENGTH: 16 base pairs
359 (B) TYPE: nucleic acid
360 (C) STRANDEDNESS: single
361 (D) TOPOLOGY: unknown
363 (ii) MOLECULE TYPE: genomic RNA
367 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
369 CACCCUUGUU UCUACU
371 (2) INFORMATION FOR SEQ ID NO: 20: 16
373 (i) SEQUENCE CHARACTERISTICS:
374 (A) LENGTH: 96 base pairs
375 (B) TYPE: nucleic acid
376 (C) STRANDEDNESS: single
377 (D) TOPOLOGY: unknown
379 (ii) MOLECULE TYPE: genomic DNA
383 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
385 CTAGACGCC TGCAGCAAAA GCAGGTGAC AAAGACATAA TGGAGAAAAA AATCACTGGG 60
387 TATACCACCG TTGATATATC CCAATCGCAT CGTAAA 96
389 (2) INFORMATION FOR SEQ ID NO: 21:
391 (i) SEQUENCE CHARACTERISTICS:
392 (A) LENGTH: 96 base pairs
393 (B) TYPE: nucleic acid
394 (C) STRANDEDNESS: single
395 (D) TOPOLOGY: unknown
397 (ii) MOLECULE TYPE: genomic DNA
401 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
403 GTTCTTTACG ATGCGATTGG GATATATCAA CGGTGGTATA CCCAGTGATT TTTTCTCCA 60
405 TTATGTCTTT GTCACCCTGC TTTTGCTGCA GGGCGT 96
407 (2) INFORMATION FOR SEQ ID NO: 22:
409 (i) SEQUENCE CHARACTERISTICS:
410 (A) LENGTH: 34 base pairs
411 (B) TYPE: nucleic acid
412 (C) STRANDEDNESS: single
413 (D) TOPOLOGY: unknown
415 (ii) MOLECULE TYPE: genomic DNA
419 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
421 ACTGCCGATGA GTGGCAGGGC GGGGCGTAAT AGAT
423 (2) INFORMATION FOR SEQ ID NO: 23: 34

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/396,539A

DATE: 07/05/2001

TIME: 10:37:45

Input Set : A:\7682048999.txt

Output Set: N:\CRF3\07052001\I396539A.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]